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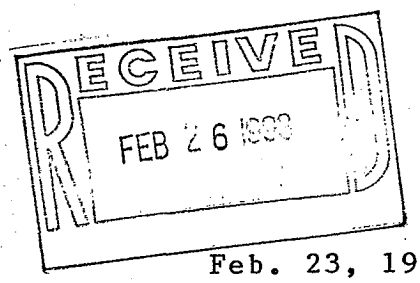

Feb. 23, 1993

Dr. Harmon McAllister
The Council for Tobacco Research-USA, Inc.
900 Third Avenue
New York, N.Y. 10022
USA

Dear Dr. McAllister,

I am writing this letter after suggestion of Dr. Gordon H. Sato. I would like to apply for the research grant of the Council for Tobacco Research, USA, Inc. this year.

I am studying the molecular mechanism of cytokinesis in animal cells. I believe that this is one of the most important problems in biology. Animal cells form cleavage furrow when they divide into two daughter cells. The cleavage furrow advances by means of contraction of the contractile ring formed in the cell cortex of the cleavage furrow. The contractile ring is primarily composed of actin filaments and myosin. It is a dynamic structure such that it is formed immediately before cleavage and it disappears soon after cleavage. It has not been known how the cleavage plane, namely the site of the contractile ring formation, is determined, how the contractile ring is organized, and how it is disorganized after cleavage. Even as to its contraction, we only know that it is caused by interaction between the actin filaments and myosin. We would like to clarify these problems.

I would be grateful if you could judge our research to deserve application to the research grant of the Council for Tbacco Research, and kindly send me an application form.

Yours sincerely,

Issei Mabuchi

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